



5V4-GA

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FULL-WAVE VACUUM RECTIFIER

For use in full-wave power supplies having high dc requirements

GENERAL DATA

Electrical:

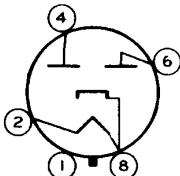
Heater, for Unipotential Cathode:

Voltage. 5 ac or dc volts
Current. 2 amp

Mechanical:

Operating Position Any
Maximum Overall Length 3-7/8"
Maximum Seated Length. 3-5/16"
Maximum Diameter 1-9/16"
Bulb T12
Base Medium-Shell Octal 5-Pin (JETEC No.B5-15), or
Short Medium-Shell Octal 5-Pin
with External Barriers, Style B,
Arrangement 1 (JETEC No.B5-121)
Basing Designation for BOTTOM VIEW 5L

Pin 1-No Connec-
tion
Pin 2-Heater
Pin 4-Plate of
Unit No.2



Pin 6-Plate of
Unit No.1
Pin 8-Heater,
Cathode

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Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE 1400 max. volts
AC PLATE-SUPPLY VOLTAGE PER PLATE (RMS):
With capacitor-input filter. 375 max. volts
With choke-input filter. 500 max. volts
PEAK PLATE CURRENT PER PLATE 525 max. ma
DC OUTPUT CURRENT. 175 max. ma
HOT-SWITCHING TRANSIENT PLATE CURRENT
PER PLATE:

Even occasional hot-switching with capacitor-input circuits
permits the flow of plate current having magnitudes which
can adversely affect the life and reliability of tubes.
If capacitor-input circuits are to be used, protect the
circuits against the possibility of hot-switching and do
not exceed a maximum peak current value per plate of
3.5 amperes during the initial cycles of the hot-switching
transient. If hot-switching is required in operation,
the use of choke-input circuits is recommended. Such
circuits limit the hot-switching current to a value no
higher than that of the peak plate current.

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Typical Operation:

With capacitor input to filter

AC Plate-to-Plate Supply Voltage (RMS) . . .	750	volts
Filter-Input Capacitor*	10	μ f
Total Effective Plate-Supply Impedance Per Plate	100	ohms
DC Output Voltage at Input to Filter (Approx.) for dc output current of 175 ma.	410	volts

With choke input to filter

AC Plate-to-Plate Supply Voltage (RMS) . . .	1000	volts
Filter-Input Choke.	4	henries
DC Output Voltage at Input to Filter (Approx.) for dc output current of 175 ma.	410	volts

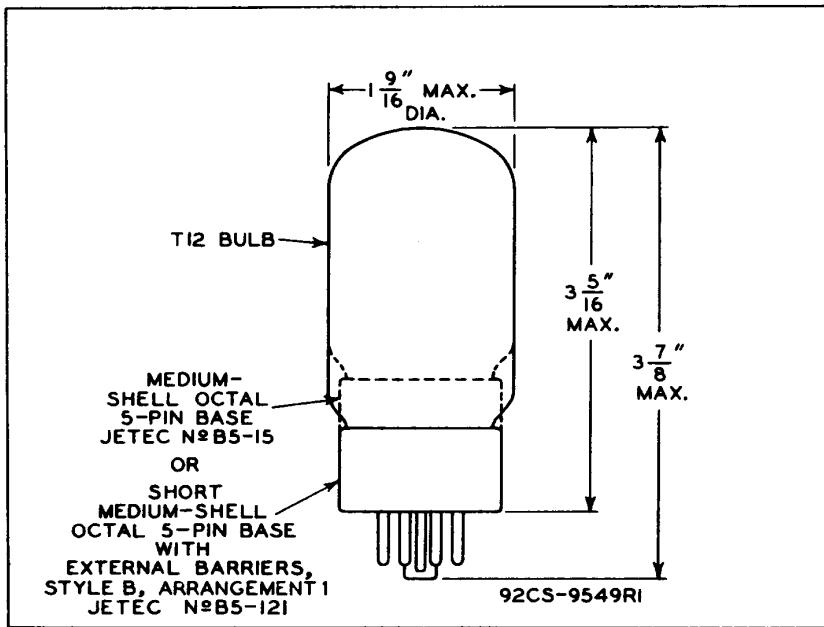
* Higher values of capacitance than indicated may be used, but the effective plate-supply impedance should be increased to prevent exceeding the maximum rating for peak plate current.



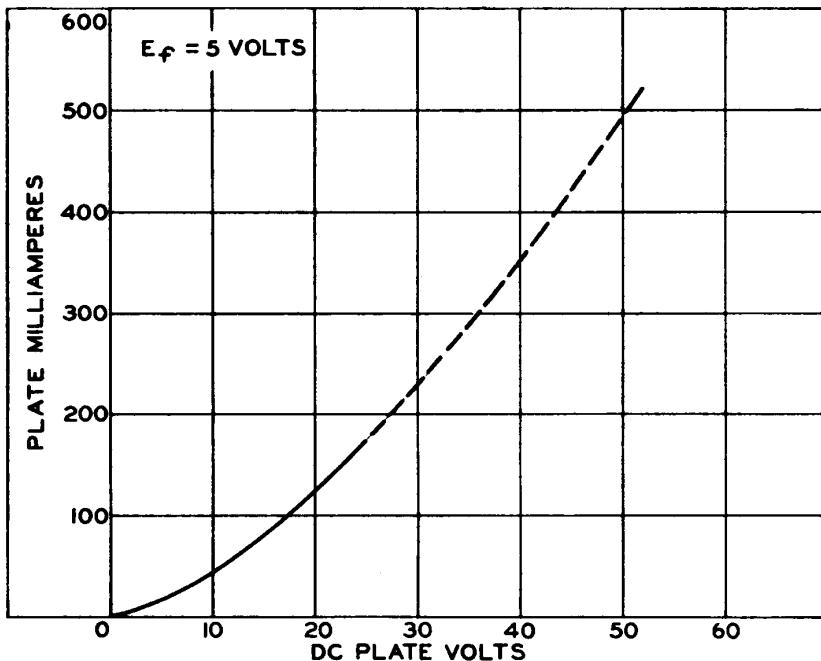
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CE-9549R1

AVERAGE PLATE CHARACTERISTIC
EACH UNIT

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OPERATION CHARACTERISTICS
FULL-WAVE RECTIFIER CIRCUIT

